



>>Entry Name: Methylphosphonous acid

Synonym(s): Methanephosphonous acid

CAS Registry Number: 4759-35-7

MeP(OH)₂

Molecular Formula: CH₅O₂P

Molecular Weight: 80.023

Accurate Mass: 80.002717

Percentage Composition: C 15.01%; H 6.30%; O 39.99%; P 38.71%

>>Derivative: Mono-Me ester

>>Derivative: Di-Me ester

Synonym(s): Dimethyl methylphosphonite

CAS Registry Number: 20278-51-7

Molecular Formula: C₃H₉O₂P

Molecular Weight: 108.077

Accurate Mass: 108.034017

Percentage Composition: C 33.34%; H 8.39%; O 29.61%; P 28.66%

Use/Importance: Ligand for Mo, Pt, Ru and W

Physical Description: Liq.

Boiling Point: Bp₃₀₀ 62-65°

Refractive Index: n_D²⁰ 1.4172

>>Derivative: Mono-Et ester

>>Derivative: Di-Et ester

Synonym(s): Diethyl methylphosphonite

CAS Registry Number: 15715-41-0

Molecular Formula: C₅H₁₃O₂P

Molecular Weight: 136.13

Accurate Mass: 136.065317

Percentage Composition: C 44.12%; H 9.63%; O 23.51%; P 22.75%

Physical Description: Noxious pungent liq.

Boiling Point: Bp 120-122° (dec.). Bp₅₀ 47°

Refractive Index: n_D²⁰ 1.4155

Hazard & Toxicity: Mod. irritant, flammable

>>Derivative: Monoisopropyl ester

>>Derivative: Diisopropyl ester

Synonym(s): Diisopropyl methylphosphonite

CAS Registry Number: 66295-44-1

Molecular Formula: C₇H₁₇O₂P

Molecular Weight: 164.184

Accurate Mass: 164.096617

Percentage Composition: C 51.21%; H 10.44%; O 19.49%; P 18.87%

Physical Description: Liq.

Boiling Point: Bp₄₀ 57-58°

Refractive Index: n_D²⁰ 1.4168

>>Derivative: Ethyl 2-(diisopropylamino)ethyl ester